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X-SPR PRO

22

The True
Racing Helmet.



X-SPR
PRO



Marc Marquez
Pilote MotoGP - Repsol Honda Team

'01

X-SPR PRO

Concept

The X-Spirit3 has taken international racing by storm, featured in MotoGP, the world's premier road racing championship.

Its outstanding performance, particularly in terms of aerodynamics, allows riders to put more of their focus on the road.

X-Spirit3 has contributed to a number of victories of world's top athletes including MotoGP world champion Marc Marquez.

SHOEI never stops in its pursuit of excellence, resulting in the development of the all-new X-SPR Pro.

The design is fully focused on racing and its shape is giving an impression of tense atmosphere.

The all-new aeroform design provides stable aerodynamic performance at speeds even in excess of 350 km/h.

The innovation behind the X-SPR Pro is not limited to its exceptional aerodynamic performance; revised dimensions around the eyeport provide a wider upper field of vision, of particular importance when riding at extreme lean angles.

The X-SPR Pro is designed to give the rider a winning advantage, set to revolutionize the world of racing once again.

**Track certified by the fastest rider
on the planet, the X-SPR Pro is a
proven race weapon.**

'02

X-SPR PRO

Target User

Users involved in racing, including MotoGP and the Superbike World Championship (WSBK) Supersport motorcycle riders.

Product positioning

A high level of safety, usability and comfort for any rider participating in road racing.

This helmet serves as the flagship model in the racing category of SHOEI, putting the highest priority on function as a "pure" racing helmet.

Pursuit of racing helmet design

The all-new helmet shape improves aerodynamic performance to a greater degree than the previous model.

The helmet shape is specialized for its intended racing use (= functional beauty).

Increased upper field of view by adjusting the overall helmet dimensions.

Pursuit of Functionality (Optimized functionality for a better riding experiences)

Alex Marquez
Pilote MotoGP - LCR Honda Castrol



'03

X-SPR PRO

Aerodynamic Performance

The aerodynamic shape and devices enable the rider to focus on the riding even at very high speeds. The shape of the helmet shell was designed from scratch in pursuit of a higher level of aerodynamic performance.

The X-SPR Pro has enhanced its aerodynamic performance than the predecessor thanks to an uncompromised attention to the details, with more than 150 shape changes made through the wind tunnel testing process.

SHOEI's superior helmet shell molding technology has enabled the bottom part of the helmet to be distinctly narrowed from the chin bar to the rear, and together with the updated shape of the rear stabilizer and rear flap, the rectifying effect has been greatly enhanced.

The newly developed rear stabilizer takes air into the tunnels on the upper left and right, exhausting the air backward through the rear stabilizer and the backside of the rear flap. This results in a more aerodynamically balanced shape (patent pending).

In addition, pronounced edges on the left and right sides of the top of the helmet combined with the concave top surface of the stabilizer provide enhanced aerodynamic performance. This area stands out in terms of the helmet design itself making the helmet balanced both style and safety.

SHOEI made these features possible with collaborative efforts by bringing the ideas from its production, testing and development teams.



'04

X-SPR PRO

SHIELD SYSTEM CWR-F2R

The newly designed CWR-F2R shield/visor provides a wider range of upper field of vision, particularly important on racing machines with extreme lean angles.

MotoGP riders, including the world champion Marc Marquez, have expressed their appreciation of the wide field of vision. This contributes to the safety of those who slide their elbows on the tarmac such as MotoGP / WSBK riders.

The X-SPR Pro features a central shield/visor locking mechanism. When the shield/visor is closed, the seal is more secure than ever, preventing wind noise and keeping rain and wind from entering the helmet.

The center locking section has a double shield locking mechanism that greatly reduces the risk of accidental shield/visor release in the event of a fall.

Additionally, the shield base plate section is equipped with a newly designed trigger lock mechanism. Activating this function locks the trigger lever on the base plate, preventing the shield/visor from opening due to an impact of a crash.

PINLOCK® PIN is used in conjunction with the tear-off button and is positioned outside of the rider's field of vision, allowing for a wider view even when PINLOCK® EVO is installed. This gives the rider even more concentrated riding experiences during the race.



**Mist-retardent CWR-F2R
Pinlockvisor.2-dimensional
shape for easy application
of tear-offs.**

'05

X-SPR PRO

Interior

The independently adjustable center pad system has been further refined from the previous model. Each pad is shaped like a pocket, allowing the rider to customize the fitting to their own head shape, including adjustability at the front and back, left and right widths, etc.

Cheek pads utilizes the two different angle adjustment system as the previous model, and the area in contact with the cheek is 16.5% larger. They give the riders more secure fit at the speeds more than 350km/h.

For high speed up to
350km/h.



'06

X-SPR PRO



Innovative cheek vent
system, active cooling
even in the lower part
of the helmet.

Ventilation

Ventilation system is positioned in optimized locations for the racing use. Ventilation performance is maximized in a tacked position with racing motor-cycles.

Upper air intake has four intake holes. A total of six air outlets, two each in the left and right outlets and two in the air stabilizer, made the X-SPR PRO possible to achieve higher ventilation efficacy than its predecessor.

The cheek ventilation system, well appreciated in the previous model, has been significantly improved. Ventilation holes have been added in the cheek area for better ventilation performance.

The number of ventilation holes on the inside of the helmet is approximately double that of the previous model, this enhanced ventilation enables the riders to race comfortably under the extreme conditions such as endurance races.



'07

X-SPR PRO

Liner

The impact absorption is the dual liner type consisting of multiple pieces with different hardness. When getting impacted in such accident, it effectively absorbs an impact in a proper balance with rigidity of shell.

In addition, between layered structured, the air routes are provided which effectively exhaust hot air and moisture inside the helmet through these air routes as well.

**Multi-composite & high performance
fiber layers. High strength, light weight.
Optimal elasticity.**

Hydration system

The inner surface shape of the chin bar is designed for the installation of a hydration system.

The optional hydration kit (tentative name) currently under the development will help riders maintain concentration during the long lap races in extreme midsummer conditions typical of endurance races.

'08

X-SPR PRO

Spécificités

SAFETY

- **Shell in AIM+**
Organic fibre and multi-composite fibre in various layers for a shock-absorbent shell
- **EPS-liner system** with different densities.
Optimized protection through EPS elements with different shock absorbing levels.
- **CWR-F2R visor system**
With Pinlock® antifog system.
- **Double D-ring**
Easy to use, always perfect adjusted
- **Emergency Quick Release System E.Q.R.S**
For easy removal in case of an accident. Pull to remove the cheek pad.
- **Homologation E22/06 - Certification FIM**

VENTILATION

- **7 venting intakes and 6 extraction**
Pour une performance de ventilation optimale
- **Inovative Cheek vent system**

WEARING COMFORT

- **4 different outer shell constructions**
For perfect fit and compact dimensions
1) XS-S, 2) M, 3) L, 4) XL-XXL
- **modular-centerpad**, detachable, washable
For pleasant wearing comfort
- **Cheek pads detachable**, washable
For better care and individual adjustment
(31, 35, 39mm)
- **Chinstrap cover** detachable, washable
Easy to maintain and clean

'09

X-SPR PRO

Sizes

X-SPR PRO - E22/06 - FIM						
Helmet size	XS	S	M	L	XL	XXL
Shell size	S		M	L	XL	
EPS liner	XS	S	M	L	XL	
Mask liner	XS	S		L		
Center pad	XS9	S9	M9	L9	XL9	XL5
Cheek pad	35					31

Line Up



Black



White



Matt Black

Parts included

Breathguard D, Chin curtain D, PINLOCK® EVO lens DKS-304, Lower Air Spoiler





PREMIUM HELMETS

XSPR PRO

The True Racing Helmet.



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